

**OPINION 2355 (Case 3581)*****Turbo bidens* Linnaeus, 1758 (Gastropoda, CLAUSILIIDAE): request to set aside the neotype not granted**

**Abstract.** The Commission has declined to fix the neotype of *Helix papillaris* Müller, 1774 as neotype for *Turbo bidens* Linnaeus, 1758. As a result, *Turbo bidens* is not a senior synonym of *Helix papillaris* (currently *Papillifera papillaris*). Instead the neotype for *Turbo bidens* designated by Kadolsky (2009) is allowed to stand.

**Keywords.** Nomenclature; taxonomy; Gastropoda; CLAUSILIIDAE; *Cochlodina incisa*; *Papillifera bidens*; stylommatophoran pulmonate snails; Europe.

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**Ruling**

- (1) The Commission has declined to use its plenary power to set aside the neotype designated by Kadolsky (2009) for *Turbo bidens* Linnaeus, 1758 and designate as neotype in its place the neotype of *Helix papillaris* Müller, 1774.
- (2) The name *papillaris* Müller, 1774, as published in the binomen *Helix papillaris*, and defined by the neotype designated by Giusti & Manganelli (2005, p. 132, Fig. on p. 133) is hereby placed on the Official List of Specific Names in Zoology;
- (3) The entry for *Turbo bidens* Linnaeus, 1758 on the Official List of Specific Names in Zoology is hereby emended to read: *bidens*, *Turbo*, Linnaeus, 1758, *Systema Naturae*, Ed. 10, vol. 1, p. 767, as defined by the neotype designated by Kadolsky, 2009 (pp. 27–28, Figs. 3b, 4) (Gastropoda).

**History of Case 3581**

An application to conserve two specific names of gastropods, *Turbo bidens* Linnaeus, 1758 (currently *Papillifera bidens*) and *Clausilia incisa* Küster, 1876 (currently *Cochlodina incisa*), by setting aside the neotype designated by Kadolsky (2009) for *Turbo bidens* and designating as neotype in its place the neotype of *Helix papillaris* Müller, 1774 was received from Francisco W. Welter-Schultes (*Zoologisches Institut, Göttingen, Germany*) on 13 December 2011. After correspondence the Case was published in BZN 69: 85–87 (June 2012) (proposals referred to as Set A). The title, abstract and keywords of the Case were published on the Commission's website. Adverse and supportive comments were published in BZN 69: 213–218; 280; 70: 43–46; 108–110. An alternative set of proposals was published by D. Kadolsky in BZN 69(3): 218 (repeated below as Set B):

**Set A**

The International Commission on Zoological Nomenclature was asked:

- (1) to use its plenary power to set aside all previous type fixations for the name *bidens* Linnaeus, 1758, as published in the binomen *Turbo bidens*, and to designate as neotype specimen no. MZUF 24432 deposited in the Museo di Storia Naturale dell'Università degli Studi di Firenze, Sezione Zoologica 'La Specola' (figured by Giusti & Manganelli, 2005, p. 133);

- (2) to emend the entry on the Official List of Specific Names in Zoology for the name *bidens* Linnaeus, 1758, as published in the binomen *Turbo bidens*, to record that it is defined by the neotype designated in (1) above.

#### Set B

The International Commission on Zoological Nomenclature was asked:

- (1) to place the name *Papillifera papillaris* (Müller, 1774), as published in the binomen *Helix papillaris* and defined by a neotype (Giusti & Manganelli, 2005: 132, Fig. on p. 133), on the Official List of Specific Names in Zoology;
- (2) to amend the entry on the Official List of Specific Names in Zoology of the name *Turbo bidens* Linnaeus, 1758 to read: *bidens*, *Turbo*, Linnaeus, 1758, *Systema Naturae*, Ed. 10, vol. 1, p. 767, as defined by a neotype proposed by Kadolsky, 2009 (pp. 27–28, Figs. 3b, 4) (Gastropoda).

The Case was sent for vote on 5 June 2014 (VP 14).

#### Decision of the Commission

At the close of the voting period on 5 September 2014 the votes were as follows:

##### SET A:

(2/3 majority needed for approval under the plenary power)

Affirmative votes – 8: Alonso-Zarazaga, Ballerio, Bouchet, Grygier, Kojima, Krell, Ng and Zhou.

Negative votes – 15: Bogutskaya, Brothers, Fautin, Halliday, Harvey, Kottelat, Kullander, Lamas, Pape, Patterson, Rosenberg, van Tol, Winston, Yanega and Zhang.

Pyle and Štys were on leave of absence.

##### SET B

(simple majority needed for approval under the specific powers)

Affirmative votes – 14: Bogutskaya, Brothers, Fautin, Halliday, Harvey, Kottelat, Kullander, Lamas, Pape, Patterson, Rosenberg, van Tol, Yanega and Zhang.

Negative votes – 8: Alonso-Zarazaga, Ballerio, Bouchet, Grygier, Kojima, Krell, Ng and Winston.

Zhou abstained.

Pyle and Štys were on leave of absence.

Voting FOR Set A and AGAINST Set B, Bouchet commented that this was a 230-year old Case where modern authors with an erudite knowledge of European land snails still disagree, and no decision by the Commission would satisfy both camps. Voting for Welter-Schultes' initial proposal, he believed that this was the pragmatic solution most likely to bring long-term stability, although some of the facts behind this choice might have been incorrect as argued by Kadolsky. Voting AGAINST Set A and FOR Set B, Rosenberg said that in Opinion 2176 the Commission had declined to conserve *Helix papillaris* against *Turbo bidens*, which some authors had regarded as a senior synonym. This did not mean that the Commission agreed with the synonymy; that is the realm of taxonomy, not nomenclature. Taxonomists who did not agree with the subjective synonymy did not have to follow it. In not designating a neotype, the Commission left open the question of the identity of the species. Kadolsky's (2009) neotype designation was a reasonable

interpretation of the available evidence, although not the only possible one. Under the rules of priority, this neotype designation should stand, he added. This opinion was shared by Winston who also voted in the same way as Rosenberg.

### **Original references**

The following is the original reference to the name placed on the Official List by the ruling given in the present Opinion.

*papillaris, Helix*, Müller, 1774, *Vermium terrestrium et fluviatilium, seu animalium infusoriorum, helminthicorum, et testaceorum, non marinorum, succincta historia. vol. n alterum*, Heineck & Faber, Havnix & Lipsix, p. 120.